



CONFIDENTIAL

From: Lionel Bartlett <bartlel@telkom.co.za>
To: GERMANY.DUS(Claus Schinabeck)
Date: Mon, Jan 19, 1998 4:26 AM
Subject: NDS on NT - Microsofts Story

**** High Priority ****

Hi David,

Thanks for the effort you made to get me the info I needed before the
ATS training. The training was very valuable!

Please verify the 'NDS on NT' attached mail from Microsoft!!

Please send me Cutris's email address. I'm not sure of the spelling of
his surname.

Regards,

Lionel Bartlett
Telkom SA Ltd.

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Fax. +27 12 311 1734

* Automate '98 *

Received: from qit-ul-0104.telkom.co.za ([165.143.91.10])
by telkom32.telkom.co.za (GroupWise SMTP/MIME daemon 4.1 v3)
; Tue, 13 Jan 98 19:00:19 ZAT
Received: from mail2.microsoft.com (mail2.microsoft.com [131.107.3.42])
by qit-ul-0104.telkom.co.za (8.8.5/1997111401) with ESMTP id TAA00843;
Tue, 13 Jan 1998 19:00:08 +0200
Received: by INET-02-IMC with Internet Mail Service (5.5.1960.3)
id <C5WG198B>; Tue, 13 Jan 1998 09:00:07 -0800

Message-ID:
<5B3F16B2DB67D1119A0D00805F312AA2070101@red-msg-58.dns.microsoft.com>
Deferred-Delivery: Tue, 13 Jan 1998 09:00:00 -0800
Return-Receipt-To: Earnie Glazener <earnieg@microsoft.com>
X-Mailer: Internet Mail Service (5.5.1960.3)
Date: Tue, 13 Jan 1998 02:21:14 +0200
From: Earnie Glazener <earnieg@microsoft.com>
To: BartleL@telkom.co.za
Cc: billren@microsoft.com, geraldmu@microsoft.com, lerouxg@telkom.co.za
Subject: RE: BackOffice News - December 2, 1997 -Reply

You may also be interested in
<http://www.microsoft.com/ntserver/comparisons/nondsformt.asp>.

NWA 000184

--Eamie

> -----Original Message-----

> From: Eamie Glazener

> Sent: Monday, January 12, 1998 4:07 PM

> To: 'bartlel@telkom.co.za'

> Cc: Gerald Murphy; Bill Renaud; 'lerouxg@telkom.co.za'

> Subject: FW: BackOffice News - December 2, 1997 -Reply

>

> - PLEASE NOTE THE INFORMATION IN THIS MESSAGE IS CONFIDENTIAL AND SUBJECT

> TO YOUR EXISTING NDA WITH MICROSOFT -

>

> Lionel, we had a great time in SA. Thank you for spending some time with

> us and for listening to what we had to say. Sorry you somehow got the

> impression that Peter and I were chancers. We certainly did not and do

> not intend to mislead you in any way.

>

> The fact is NDS on NT is reverse engineered. The SAM APIs are not

> exposed, so the only way to develop a replacement for SAMSRV is through

> reverse engineering the APIs based on analysis of the running system,

> decoding of entry points and call frames, and other related

> techniques--not through documentation and SDKs. Anyone who tells you

> differently is the true chancer in this case.

>

> Your observation about the current version of NDS on NT is astute.

You

> may be interested in these additional observations:

>

> 1. SAM APIs are subject to change. Installation of a service pack could,

> for example, install an updated SAMSRV.DLL and effectively disconnect the

> DC in question from NDS.

>

> 2. Since the SAM APIs are not exposed there is a high probability that

> some SAM operations are not covered by the replacement SAMSRV. The impact

> of this is difficult to assess without exhaustive testing.

>

> 3. In the case of a single NDS user being granted access to multiple

> domains, the same user, "JamesSmith" would appear in the context of each

> "trusted domain" selected. A Windows NT ACL could have entries for

> Domain1\JamesSmith, Domain2\JamesSmith, and Domain3\JamesSmith. All

> three are in fact the same user, but with different SIDs.

- >
- > 4. Windows NT Groups are not NDS groups. To make a group visible in Windows NT the administrator must create an IWSam group as a child of a domain object. Only users can be added to IWSam groups.
- >
- > 5. An administrator must use multiple tools for administration due to missing functionality in NDS for NT
- >
- > 6. ADSI supports NDS, but ADSI does not expose the SID, password residue, and other items required to migrate a Windows NT domain to NDS. This means the migration process is via the UI, and the current UI makes this quite laborious.
- >
- > 7. Since NDS for NT must support all Windows NT clients, not just Windows NT clients with the IntranetWare client installed, Novell must maintain 2 passwords for every user: a Windows NT password and an NDS password. From Novell's own announcement documents it is clear this is a compromise solution that is far from transparent to the user.
- >
- > 8. Every domain controller for a given Windows NT domain must have the NDS for Windows NT components installed so that all authentication and authorization operations are redirected to NDS. It is not clear what the system behavior will be in a partially migrated domain (e.g. some DCs with NDS for NT and some without).
- >
- > 9. Network traffic for Windows NT authentication and authorization doubles. Each SAM operation at a DC results in an least one additional round trip between the DC and a NetWare server.
- >
- > 10. This will not work on Windows NT Server 5.0. Novell has made assurances that installing NDS for NT will not hinder an upgrade to Active Directory. This is incorrect. The upgrade from Windows NT Server 4.0 to Windows NT Server 5.0 converts the SAM by reading it directly, not by calling SAM APIs. The users and groups created in NDS will not be picked up in the upgrade (assuming the upgrade can even begin with the hacked SAMSRV installed, which is unlikely). NDS for NT users will be faced with a second migration after installing Windows NT Server 5.0, to bring

> the NDS users into Active Directory. Furthermore, there are multiple
> paths into the authorization and authentication system in Windows NT
> Server 5.0, there is no single place to trap and redirect these
> operations. A Windows NT Server 5.0 version of NDS for NT will
require a
> total rewrite, and there is little motivation for this since Windows
NT
> Server 5.0 comes with Active Directory.
>
> 11. NDS for NT is not a mainstream product. It is a point solution
that
> appears to be designed to appeal to NetWare customers with an
expanding
> base of Windows NT servers supporting applications like Exchange.
While
> NDS for NT might be appealing as a stopgap measure to provide more
> centralized administration of Windows NT domains, the substantial
expense,
> questionable stability, and dead-end nature of the implementation all
> argue against it.
>
> You saw and heard from us how NT domains can meet your needs
effectively
> today, provide acceptable administrator support, and provide far
better
> application support than NDS. The story gets even better with NT5. I
> strongly urge you to consider a move to NT4 today both for the
benefits NT
> offers today and as a means of positioning Telkom for a smooth
migration
> to NT5. You will be happy you did.
>
> Once again, thank you for the great time we had in SA. We look
forward to
> seeing you again the next time we are in Johannesburg.
>
> Best wishes,
>
> Eamie Glazener
> Enterprise Customer Unit
>
> -----Original Message-----
> From: Lionel Bartlett [SMTP:bartlel@telkom.co.za]
> Sent: Friday, December 05, 1997 7:58 AM
> To: Gerald Murphy
> Cc: lerouxg@telkom.co.za
> Subject: BackOffice News - December 2, 1997
> -Reply
>
> Hi,

- >
- > Thanks for the news.
- >
- > Those Microsoft Consultants you brought over here
- > are chancers. NDS on
- > NT is not reverse engineered, it makes use of
- > Microsoft RPC technology.
- > The current version of NDS on NT isn't that great
- > anyway.
- >
- > Regards,
- >
- > Lionel Bartlett
- > Telkom SA Ltd.
- >
- > Tel. +27 12 311 4414
- > Fax. +27 12 311 1734
- >
- > * NT5 will be released...hmmm...2000-2999 *